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                 to be discontinued
NEWS 28
         SEP 25
                 CA/CAplus current-awareness alert options enhanced
                 to accommodate supplemental CAS indexing of
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NEWS 29 SEP 26 WPIDS, WPINDEX, and WPIX coverage of Chinese and
and Korean patents enhanced

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L5 ANSWER 1 OF 11 USPATFULL on STN

TI Conjugates and compositions for cellular delivery

This invention features conjugates, degradable linkers, compositions, methods of synthesis, and applications thereof, including cholesterol, folate, galactose, galactosamine, N-acetyl galactosamine, PEG, phospholipid, peptide and human serum albumin (HSA) derived conjugates of biologically active compounds, including antibodies, antivirals, chemotherapeutics, peptides, proteins, hormones, nucleosides, nucleotides, non-nucleosides, and nucleic acids including enzymatic nucleic acids, DNAzymes, allozymes, antisense, dsRNA, siNA, siRNA, triplex oligonucleotides, 2,5-A chimeras, decoys and aptamers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:315501 USPATFULL

TITLE: Conjugates and compositions for cellular delivery INVENTOR(S): Vargeese, Chandra, Broomfield, CO, UNITED STATES Haeberli, Peter, Berthoud, CO, UNITED STATES

Wang, Weimin, Superior, CO, UNITED STATES Chen, Tongqian, Longmont, CO, UNITED STATES

TITLE DAME

PATENT ASSIGNEE(S): Sirna Therapeutics, Inc., Boulder, CO, UNITED STATES

(U.S. corporation)

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PATENT INFORMATION:	US 20040249178	A1	20041209	
APPLICATION INFO. :	US 2004-780447	A 1	20040213	

APPLICATION INFO.: US 2004-780447 A1 20040213 (10) RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 20

Continuation-in-part of Ser. No. US 2003-427160, filed on 30 Apr 2003, PENDING Continuation-in-part of Ser. No. WO 2002-US15876, filed on 20 May 2002, PENDING Continuation-in-part of Ser. No. WO 2003-US5346, filed

on 20 Feb 2003, PENDING

NUMBER	DATE	
WO 2002-US15876 WO 2003-US5346 WO 2003-US5028 US 2001-292217P US 2001-306883P US 2001-311865P US 2002-362016P US 2002-358580P US 2002-363124P US 2002-386782P US 2002-406784P US 2002-408378P	20020520 20030220 20030220 20010518 20010720 20010813 20020306 20020220 20020311 20020606 20020829 20020905	(60) (60) (60) (60) (60) (60) (60)
US 2002-409293P US 2003-440129P	20020909 20030115	(60) (60)
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DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP, 300 S. WACKER

DRIVE, 32ND FLOOR, CHICAGO, IL, 60606

NUMBER OF CLAIMS: 21

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 51 Drawing Page(s)

LINE COUNT: 5782

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 2 OF 11 USPATFULL on STN L5

TINovel antiangiogenic peptides, polypeptides encoding same and methods

for inhibiting angiogenesis

AΒ Mammalian kringle 5 fragments and kringle 5 fusion proteins are disclosed as a compounds for treating angiogenic diseases. Methods and

compositions for inhibiting angiogenic diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:178957 USPATFULL

TITLE: Novel antiangiogenic peptides, polypeptides encoding

same and methods for inhibiting angiogenesis

Davidson, Donald J., Gurnee, IL, UNITED STATES INVENTOR(S):

Wang, Jieyi, Gurnee, IL, UNITED STATES

Gubbins, Earl J., Libertyville, IL, UNITED STATES

NUMBER KIND DATE _____ US 20040138127 A1 US 2004-753646 A1 20040715 PATENT INFORMATION:

APPLICATION INFO.: 20040108 (10)

Continuation of Ser. No. US 1997-924287, filed on 5 Sep RELATED APPLN. INFO.:

1997, GRANTED, Pat. No. US 6699838 Continuation-in-part of Ser. No. US 1997-851350, filed on 5 May 1997, GRANTED, Pat. No. US 6057122 Continuation-in-part of Ser. No. US 1997-832087, filed on 3 Apr 1997, GRANTED, Pat. No. US 5981484 Continuation-in-part of Ser. No. US

1996-643219, filed on 3 May 1996, GRANTED, Pat. No. US 5801146

Utility DOCUMENT TYPE: FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: STEVEN F. WEINSTOCK, ABBOTT LABORATORIES, 100 ABBOTT

PARK ROAD, DEPT. 377/AP6A, ABBOTT PARK, IL, 60064-6008

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Page(s)

LINE COUNT: 3457

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 11 USPATFULL on STN

ΤI Conjugates and compositions for cellular delivery

This invention features conjugates, degradable linkers, compositions, AB methods of synthesis, and applications thereof, including cholesterol, folate, galactose, galactosamine, N-acetyl galactosamine, PEG, phospholipid, peptide and human serum albumin (HSA) derived conjugates of biologically active compounds, including antibodies, antivirals, chemotherapeutics, peptides, proteins, hormones, nucleosides, nucleotides, non-nucleosides, and nucleic acids including enzymatic nucleic acids, DNAzymes, allozymes, antisense, dsRNA, siNA, siRNA, triplex oligonucleotides, 2,5-A chimeras, decoys and aptamers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:144631 USPATFULL

TITLE: Conjugates and compositions for cellular delivery INVENTOR(S): Vargeese, Chandra, Broomfield, CO, UNITED STATES

Haeberli, Peter, Berthoud, CO, UNITED STATES Wang, Weimin, Superior, CO, UNITED STATES Chen, Tongqian, Longmont, CO, UNITED STATES

Ribozyme Pharmaceuticals, Inc. (U.S. corporation) PATENT ASSIGNEE(S):

NUMBER KIND DATE ______ US 20040110296 A1 20040610 US 2003-427160 A1 20030430 (10) PATENT INFORMATION: APPLICATION INFO.:

Continuation-in-part of Ser. No. WO 2002-US15876, filed RELATED APPLN. INFO.: on 20 May 2002, PENDING Continuation-in-part of Ser. No. WO 2003-US5346, filed on 20 Feb 2003, PENDING Continuation-in-part of Ser. No. WO 2003-US5028, filed

on 20 Feb 2003, PENDING

NUMBER DATE _____ US 2001-292217P 20010518 (60) PRIORITY INFORMATION: US 2001-306883P 20010720 (60) US 2001-311865P 20010813 (60) US 2002-362016P 20020306 (60) US 2002-358580P 20020220 (60) US 2002-363124P 20020311 (60) US 2002-386782P 20020606 (60) US 2002-406784P 20020829 (60) US 2002-408378P 20020905 (60) US 2002-409293P 20020909 (60) US 2003-440129P 20030115 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP, 300 S. WACKER

DRIVE, 32ND FLOOR, CHICAGO, IL, 60606

NUMBER OF CLAIMS: 2.1 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 51 Drawing Page(s)

5686 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5ANSWER 4 OF 11 USPATFULL on STN

ΤI Antiangiogenic peptides

Mammalian kringle 5 fragments and kringle 5 fusion proteins are disclosed as a compounds for treating angiogenic diseases. Methods and

compositions for inhibiting angiogenic diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. ACCESSION NUMBER: 2004:53363 USPATFULL TITLE: Antiangiogenic peptides

INVENTOR(S): Davidson, Donald J., Gurnee, IL, United States PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States

(U.S. corporation)

NUMBER KIND DATE _____ US 6699838 B1 20040302 US 1997-924287 19970905 PATENT INFORMATION: APPLICATION INFO.: 19970905 (8)

Continuation-in-part of Ser. No. US 1997-851350, filed RELATED APPLN. INFO.:

on 5 May 1997, now patented, Pat. No. US 6057122 Continuation-in-part of Ser. No. US 1997-832087, filed

on 3 Apr 1997, now patented, Pat. No. US 5981484

Continuation-in-part of Ser. No. US 1996-643219, filed

on 3 May 1996, now patented, Pat. No. US 5801146

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Low, Christopher S. F. ASSISTANT EXAMINER: Robinson, Hope A.

LEGAL REPRESENTATIVE: Casuto, Dianne, Steele, Gregory W.

NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 11 Drawing Page(s)

LINE COUNT: 3178

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5ANSWER 5 OF 11 USPATFULL on STN

ΤI Conjugates and compositions for cellular delivery

AΒ This invention features conjugates, degradable linkers, compositions, methods of synthesis, and applications thereof, including galactose, galactosamine, N-acetyl galactosamine, PEG, phospholipid, peptide and human serum albumin (HSA) derived conjugates of biologically active compounds, including antibodies, antivirals, chemotherapeutics, peptides, proteins, hormones, nucleosides, nucleotides, non-nucleosides, and nucleic acids including enzymatic nucleic acids, DNAzymes, allozymes, antisense, dsRNA, siRNA, triplex oligonucleotides, 2,5-A chimeras, decoys and aptamers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:188393 USPATFULL

Conjugates and compositions for cellular delivery TITLE: Vargeese, Chandra, Thornton, CO, UNITED STATES INVENTOR(S): Matulic-Adamic, Jasenka, Boulder, CO, UNITED STATES Karpeisky, Alexander, Lafayette, CO, UNITED STATES Beigelman, Leonid, Longmont, CO, UNITED STATES Blatt, Lawrence, Boulder, CO, UNITED STATES

> NUMBER KIND DATE _____

Zinnen, Shawn, Denver, CO, UNITED STATES

PATENT INFORMATION: US 20030130186 A1 20030710 US 2002-201394 A1 20020722 (10) APPLICATION INFO.:

> NUMBER DATE _____

US 2001-311865P 20010813 (60) PRIORITY INFORMATION: US 2001-306883P 20010720 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

DRIVE, SUITE 3200, CHICAGO, IL, 60606 40 LEGAL REPRESENTATIVE: MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 4466

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5ANSWER 6 OF 11 USPATFULL on STN

TIModified plasminogen related peptide fragments and their use as

angiogenesis inhibitors

Modified peptide fragments of plasminogen domain are provided which AΒ exhibit anti-angiogenic activity. Compositions containing these peptide fragments and methods of using these compositions to treat angiogenic dependent and associated disorders are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. ACCESSION NUMBER: 2003:79063 USPATFULL

TITLE: Modified plasminogen related peptide fragments and

their use as angiogenesis inhibitors

Ji, Weidong-Richard, Philadelphia, PA, UNITED STATES INVENTOR(S):

Meyers, Chester A., Medford, NJ, UNITED STATES

Natarajan, Sesha I., Hillsborough, NJ, UNITED STATES

Trail, Pamela A., Madison, CT, UNITED STATES

NUMBER KIND DATE ______ US 20030054988 A1 20030320 US 2001-999457 A1 20011031 PATENT INFORMATION: APPLICATION INFO.: A1 20011031 (9)

> NUMBER DATE

PRIORITY INFORMATION: US 2000-245384P 20001102 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT

DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000

10 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 557

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 7 OF 11 USPATFULL on STN

ΤI Antiangiogenic peptides and methods for inhibiting angiogenesis

AB Mammalian kringle 5 fragments are disclosed as a compounds for treating angiogenic diseases. Methods and compositions for inhibiting angiogenic diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. ACCESSION NUMBER: 2001:97890 USPATFULL

TITLE: Antiangiogenic peptides and methods for inhibiting

angiogenesis

INVENTOR(S): Davidson, Donald J., Gurnee, IL, United States

PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States

(U.S. corporation)

NUMBER KIND DATE _____ PATENT INFORMATION: US 6251867 B1 20010626 APPLICATION INFO.: US 1998-132154 19980811 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1998-132154, filed on 11 Aug 1998 And Ser. No. US 1997-832087, filed on 3 Apr

1997 Continuation-in-part of Ser. No. US 1996-643219, filed on 3 May 1996, now patented, Pat. No. US 5801146

DOCUMENT TYPE: Utilitv GRANTED FILE SEGMENT:

PRIMARY EXAMINER: Hendricks, Keith D. ASSISTANT EXAMINER: Stole, Einar

LEGAL REPRESENTATIVE: Steele, Gregory W., Casuto, Dianne

NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

12 Drawing Figure(s); 12 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 2101

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 11 USPATFULL on STN L5

ΤI Antiangiogenic peptides polynucleotides encoding same and methods for inhibiting angiogenesis

AΒ Mammalian kringle 5 fragments and kringle 5 fusion proteins are disclosed as a compounds for treating angiogenic diseases. Methods and compositions for inhibiting angiogenic diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. ACCESSION NUMBER: 2000:53906 USPATFULL

TITLE: Antiangiogenic peptides polynucleotides encoding same

and methods for inhibiting angiogenesis

INVENTOR(S): Davidson, Donald J., Gurnee, IL, United States

PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States

(U.S. corporation)

NUMBER KIND DATE

______ US 6057122 20000502 US 1997-851350 19970505 (8) PATENT INFORMATION:

APPLICATION INFO.:

Continuation-in-part of Ser. No. US 1997-832087, filed RELATED APPLN. INFO.:

on 3 Apr 1997 which is a continuation-in-part of Ser. No. US 1996-643219, filed on 3 May 1996, now patented,

Pat. No. US 5801146

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Wax, Robert A. ASSISTANT EXAMINER: Stole, Einar

LEGAL REPRESENTATIVE: Steele, Gregory W., Casuto, Dianne

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 10 Drawing Figure(s); 11 Drawing Page(s)

LINE COUNT: 3215

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

 L_5 ANSWER 9 OF 11 USPATFULL on STN

ΤI Antiangiogenic peptides and methods for inhibiting angiogenesis AΒ Mammalian kringle 5 peptide fragments are disclosed for treating

angiogenic diseases Methods and compositions for inhibiting angiogenic

diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:141891 USPATFULL

TITLE: Antiangiogenic peptides and methods for inhibiting

angiogenesis

INVENTOR(S): Davidson, Donald J., Gurnee, IL, United States

PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States

(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5981484 19991109 APPLICATION INFO.: US 1997-832087 19970403 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-643219, filed

on 3 May 1996, now patented, Pat. No. US 5801146

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Prouty, Rebecca E. ASSISTANT EXAMINER: Stole, Einar

LEGAL REPRESENTATIVE: Steele, Gregory W., Casuto, Dianne

NUMBER OF CLAIMS: 12 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 12 Drawing Figure(s); 12 Drawing Page(s)

LINE COUNT: 2474

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 10 OF 11 USPATFULL on STN L5

TΙ Antiangiogenic peptides and methods for inhibiting angiogenesis CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:132781 USPATFULL

TITLE: Antiangiogenic peptides and methods for inhibiting

angiogenesis

INVENTOR(S): Davidson, Donald J., Gurnee, IL, United States

PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States

(U.S. corporation)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1997-832087, filed on 3 Apr

1997 which is a continuation-in-part of Ser. No. US 1996-643219, filed on 3 May 1996, now patented, Pat.

(9)

No. US 5801146

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Wax, Robert A. ASSISTANT EXAMINER: Stole, Einar

LEGAL REPRESENTATIVE: Steele, Gregory W., Casuto, Dianne

NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 12 Drawing Figure(s); 12 Drawing Page(s)

LINE COUNT: 2444

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 11 OF 11 WPIDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI Novel kringle 5 peptide compound or kringle 5 fusion protein, useful for inhibiting angiogenesis and thus for treating cancer, arthritis, macular degeneration and diabetic retinopathy

AN 2004-552394 [53] WPIDS

CR 1997-558670; 2000-349573; 2004-224006

AB US 20040138127 A1 UPAB: 20050706

NOVELTY - A kringle 5 peptide compound or kringle 5 fusion protein (I) which comprises amino acid residues 1-197 corresponding to sequence comprising amino acids 334-530 of a fully defined human plasminogen molecule (including its kringle 5 region) sequence (S1) of 791 amino acids as given in specification, and 1-12 amino acid residues corresponding to sequence from amino acid position 535-546 of (S1), is new.

DETAILED DESCRIPTION - A compound having the formula:

- (a) A-B-C-X-Y (F1) or its salt, ester or prodrug, where A is absent or a nitrogen protecting group; Y is absent or a carboxylic acid protecting group; B is absent or is 1-197 naturally occurring amino acid residues corresponding to sequence from amino acid position 334-530 of (S1); C is R1-R2-R3-R4, where R1 is lysyl; R2 is leucyl or arginyl; R3 is tyrosyl, 3-I-tyrosyl or phenylalanyl; R4 is aspartyl; and X is absent or is 1-12 naturally occurring amino acid residues corresponding to the sequence from amino acid position 535-546 of (S1) and their homologs or analogs; or
- (b) A-B1-C1-X1-Y (F2) or its salt, ester or prodrug, where A and Y are as described above; B1 is absent or is 1-176 naturally occurring amino acid residues corresponding to the sequence from amino acid position 334-513 of (S1); C1 is the sequence from 514-523 amino acid position of (S1); and X1 is absent or is 1-10 naturally occurring amino acid residues

corresponding to the sequence from amino acid position 524-533 of (S1) and their homologs or analogs.

The kringle 5 peptide fragment has substantially sequence homology to a plasminogen fragment chosen from human, murine, bovine, Rhesus monkey and porcine plasminogen.

INDEPENDENT CLAIMS are also included for the following:

- (1) a composition (C1) comprising a mammalian isolated single- or double-stranded polynucleotide sequence (II) that encodes a kringle 5 peptide fragment or kringle 5 fusion protein having angiogenesis inhibiting activity;
- (2) a composition (C2) comprising a kringle 5 peptide fragment or kringle 5 fusion protein and an excipient;
 - (3) (II) as described above;
 - (4) a vector (III) comprising (II);
- (5) implanting into a human or non-human animal a cell containing a vector, where the vector contains (II) and where the vector is capable of expressing the kringle 5 peptide fragment or kringle 5 fusion protein when present in the cell;
- (6) making a kringle 5 peptide fragment involves exposing a mammalian plasminogen to elastase at a ratio of 1:100-1:300 to form a mixture of the plasminogen of the elastase, incubating the mixture, and isolating the kringle 5 from the mixture; and
- (7) making a soluble kringle 5 peptide fragment or kringle 5 fusion protein involves isolating a polynucleotide which encodes the kringle 5 peptide fragment, cloning the polynucleotide into an expression vector, transforming the vector into a suitable host cell, and growing the host cell under conditions suitable for the expression of the soluble kringle 5 peptide fragment or kringle 5 fusion protein.

ACTIVITY - Cytostatic; Antiarthritic; Ophthalmological; Antipsoriatic; Antidiabetic; Antirheumatic; Antiinflammatory; Antiatherosclerotic; Dermatological; Vulnerary; Contraceptive.

MECHANISM OF ACTION - Angiogenesis inhibitor; Endothelial cell proliferation inhibitor; Ovulation inhibitor. The effect of kringle 5 peptide fragments on endothelial cell proliferation was determined in vitro using endothelial cell proliferation was assay. Kringle 5 peptide fragments were prepared and tested at various concentrations ranging from 100-1000 pm with basic fibroblast growth factor. The kringle 5 peptide fragment was effective at inhibiting bovine capillary (adrenal) endothelial cell (BCE) proliferation in a dose-dependent manner. The concentration of kringle 5 peptide fragment required to reach 50% inhibition (ED50) was determined at about 300 pM. In contrast, the ED50 of kringles 1-4 was shown to be 135 nM. The kringle 3 peptide fragment was least effective at inhibiting BCE cell proliferation (ED50 = 460 nM), followed by the kringle 1 peptide fragment (ED50 = 320 nM), kringle 1-4 peptide fragments (ED50 = 75 nM) and kringles 1-3 peptide fragments was the most effective at inhibiting BCE cell proliferation with an ED50 of 0.3.

USE - (I) (more preferably, human kringle 5 peptide fragment or kringle 5 fusion protein) is useful for treating a disease in a patient in need of antiangiogenesis therapy, preferably for treating cancer, arthritis, macular degeneration and diabetic retinopathy, more preferably cancer, metastatic solid tumors, carcinomas, sarcomas, lymphomas, psoriasis and hemangiomas (claimed). (I) is useful for treating primary and metastatic solid tumors and carcinomas of the breast, colon, rectum, lung, etc., and for prophylaxis of autoimmune diseases such as rheumatoid arthritis, retrolental fibroplasias, abnormal neovascularization conditions of the eye, Osler-Webber syndrome, myocardial angiogenesis; diseases characterized by abnormal stimulation of endothelia cells such as Crohn's disease, atherosclerosis, scleroderma and hypertrophic scars (that is keloids). (I) is also useful as a birth control agent which inhibits ovulation and establishment of the placenta. (I) is useful for preventing

metastasis from tumors. (I) is useful as agonist or antagonist active at kringle 5 binding site, as antigens for developing specific antisera, as peptides for use in diagnostic kits, and as peptides linked to or used in combination with cytotoxic agents for targeted killing of cells that bind kringle 5 peptide fragments. (I) is also useful for isolating kringle 5 receptor. (III) is useful in gene therapy techniques for treating the above mentioned conditions.

ACCESSION NUMBER: 2004-552394 [53] WPIDS

CROSS REFERENCE: 1997-558670; 2000-349573; 2004-224006

DOC. NO. CPI: C2004-208850 [56]

TITLE: Novel kringle 5 peptide compound or kringle 5

fusion protein, useful for inhibiting angiogenesis and thus for treating cancer, arthritis, macular degeneration

and diabetic retinopathy

DERWENT CLASS: A96; B04; D16

INVENTOR: DAVIDSON D J; GUBBINS E J; WANG J

PATENT ASSIGNEE: (DAVI-I) DAVIDSON D J; (GUBB-I) GUBBINS E J; (WANG-I)

WANG J

COUNTRY COUNT: 1

PATENT INFO ABBR.:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

US 20040138127 A1 20040715 (200453)* EN 53[7]

APPLICATION DETAILS:

PA1	CENT NO	KIND	APPLICATION DATE	ATE
IIS	20040138127	 A1 CTP of	US 1996-643219 19960503	9960503
	20040138127		US 1997-832087 19970403	
US	20040138127	A1 CIP of	US 1997-851350 19970505	9970505
US	20040138127	A1 Cont of	US 1997-924287 19970905	9970905
US	20040138127	A1	US 2004-753646 20040108	0040108

FILING DETAILS:

PATENT NO	KIND	PATENT NO
US 20040138127 US 20040138127 US 20040138127	A1 CIP of A1 CIP of	US 5801146 A US 5981484 A US 6057122 A
US 20040138127 PRIORITY APPLN. INFO		US 6699838 B 20040108 19960503 19970403 19970505 19970905

=> d his

(FILE 'HOME' ENTERED AT 15:17:07 ON 27 SEP 2008)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, HCAPLUS' ENTERED AT 15:17:33 ON 27 SEP 2008

L1 915 S COMPOUND AND ESTER PRODRUG

L2 715 S L1 AND (SALT)

L3 2525 S COMPOUND AND (NITROGEN PROTECTING GROUP)

L457 S L3 AND CARBOXYLIC ACID PROTECTING GROUP

T.5 11 S L4 AND (LYSYL)

0 S L5 AND L2 1.6

=> s (lysyl-leucyl-tyrosyl-aspartyl)

6 (LYSYL-LEUCYL-TYROSYL-ASPARTYL)

=> d 17 ti abs ibib tot

INVENTOR(S):

ANSWER 1 OF 6 USPATFULL on STN

Novel antiangiogenic peptides, polypeptides encoding same and methods ΤI

for inhibiting angiogenesis

AΒ Mammalian kringle 5 fragments and kringle 5 fusion proteins are disclosed as a compounds for treating angiogenic diseases. Methods and compositions for inhibiting angiogenic diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:178957 USPATFULL

TITLE: Novel antiangiogenic peptides, polypeptides encoding

> same and methods for inhibiting angiogenesis Davidson, Donald J., Gurnee, IL, UNITED STATES Wang, Jieyi, Gurnee, IL, UNITED STATES

Gubbins, Earl J., Libertyville, IL, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 20040138127 A1 20040715 US 2004-753646 A1 20040108 (10) APPLICATION INFO.:

Continuation of Ser. No. US 1997-924287, filed on 5 Sep RELATED APPLN. INFO.:

1997, GRANTED, Pat. No. US 6699838 Continuation-in-part

of Ser. No. US 1997-851350, filed on 5 May 1997, GRANTED, Pat. No. US 6057122 Continuation-in-part of Ser. No. US 1997-832087, filed on 3 Apr 1997, GRANTED, Pat. No. US 5981484 Continuation-in-part of Ser. No. US 1996-643219, filed on 3 May 1996, GRANTED, Pat. No. US

5801146

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: STEVEN F. WEINSTOCK, ABBOTT LABORATORIES, 100 ABBOTT

PARK ROAD, DEPT. 377/AP6A, ABBOTT PARK, IL, 60064-6008

NUMBER OF CLAIMS:

68 - AI EXEMPLARY CLAIM: 1

LINE COUNT: 3457
CAS INDEXT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 2 OF 6 USPATFULL on STN T.7

ΤI Antiangiogenic peptides

Mammalian kringle 5 fragments and kringle 5 fusion proteins are AB disclosed as a compounds for treating angiogenic diseases. Methods and

compositions for inhibiting angiogenic diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:53363 USPATFULL TITLE: Antiangiogenic peptides

INVENTOR(S): Davidson, Donald J., Gurnee, IL, United States PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States

(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6699838 B1 20040302 APPLICATION INFO.: US 1997-924287 19970905 19970905 (8)

Continuation-in-part of Ser. No. US 1997-851350, filed RELATED APPLN. INFO.:

on 5 May 1997, now patented, Pat. No. US 6057122

Continuation-in-part of Ser. No. US 1997-832087, filed

on 3 Apr 1997, now patented, Pat. No. US 5981484 Continuation-in-part of Ser. No. US 1996-643219, filed

on 3 May 1996, now patented, Pat. No. US 5801146

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Low, Christopher S. F.

ASSISTANT EXAMINER: Robinson, Hope A.

LEGAL REPRESENTATIVE: Casuto, Dianne, Steele, Gregory W.

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 11 Drawing Page(s)

LINE COUNT: 3178

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 6 USPATFULL on STN

ΤT Antiangiogenic peptides and methods for inhibiting angiogenesis

AΒ Mammalian kringle 5 fragments are disclosed as a compounds for treating angiogenic diseases. Methods and compositions for inhibiting angiogenic diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:97890 USPATFULL

TITLE: Antiangiogenic peptides and methods for inhibiting

angiogenesis

Davidson, Donald J., Gurnee, IL, United States INVENTOR(S): PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States

(U.S. corporation)

NUMBER KIND DATE _____ US 6251867 B1 20010626 US 1998-132154 19980811 (9) PATENT INFORMATION: APPLICATION INFO.:

Continuation of Ser. No. US 1998-132154, filed on 11 RELATED APPLN. INFO.: Aug 1998 And Ser. No. US 1997-832087, filed on 3 Apr 1997 Continuation-in-part of Ser. No. US 1996-643219, filed on 3 May 1996, now patented, Pat. No. US 5801146

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Hendricks, Keith D. ASSISTANT EXAMINER: Stole, Einar

LEGAL REPRESENTATIVE: Steele, Gregory W., Casuto, Dianne

NUMBER OF CLAIMS: 4 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 12 Drawing Figure(s); 12 Drawing Page(s)

2101 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 6 USPATFULL on STN L7

Antiangiogenic peptides polynucleotides encoding same and methods for ΤI inhibiting angiogenesis

Mammalian kringle 5 fragments and kringle 5 fusion proteins are AB disclosed as a compounds for treating angiogenic diseases. Methods and compositions for inhibiting angiogenic diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. ACCESSION NUMBER: 2000:53906 USPATFULL

Antiangiogenic peptides polynucleotides encoding same TITLE:

and methods for inhibiting angiogenesis

Davidson, Donald J., Gurnee, IL, United States INVENTOR(S): PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States

(U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: ______ 20000502

US 6057122 US 1997-851350 APPLICATION INFO.: 19970505 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-832087, filed on 3 Apr 1997 which is a continuation-in-part of Ser.

No. US 1996-643219, filed on 3 May 1996, now patented,

Pat. No. US 5801146

DOCUMENT TYPE: Utility Granted FILE SEGMENT:

PRIMARY EXAMINER: Wax, Robert A. Stole, Einar ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE: Steele, Gregory W., Casuto, Dianne

1 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 10 Drawing Figure(s); 11 Drawing Page(s)

LINE COUNT: 3215

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 5 OF 6 USPATFULL on STN

Antiangiogenic peptides and methods for inhibiting angiogenesis ΤI

AΒ Mammalian kringle 5 peptide fragments are disclosed for treating

angiogenic diseases Methods and compositions for inhibiting angiogenic

diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:141891 USPATFULL

TITLE: Antiangiogenic peptides and methods for inhibiting

angiogenesis

INVENTOR(S): Davidson, Donald J., Gurnee, IL, United States PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States

(U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: US 5981484 19991109 US 1997-832087 19970403 (8) APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-643219, filed

on 3 May 1996, now patented, Pat. No. US 5801146

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Prouty, Rebecca E. ASSISTANT EXAMINER: Stole, Einar

LEGAL REPRESENTATIVE: Steele, Gregory W., Casuto, Dianne

12 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

12 Drawing Figure(s); 12 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 6 USPATFULL on STN

ΤI Antiangiogenic peptides and methods for inhibiting angiogenesis

AΒ Mammalian kringle 5 fragments are disclosed as a compounds for treating angiogenic diseases. Methods and compositions for inhibiting angiogenic diseases are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:132781 USPATFULL

TITLE: Antiangiogenic peptides and methods for inhibiting

angiogenesis

INVENTOR(S): Davidson, Donald J., Gurnee, IL, United States

PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States

(U.S. corporation)

PATENT INFORMATION: US 5972896 19991026 APPLICATION INFO.: US 1998-131995 19980811 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1997-832087, filed on 3 Apr

1997 which is a continuation-in-part of Ser. No. US 1996-643219, filed on 3 May 1996, now patented, Pat.

No. US 5801146

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Wax, Robert A. ASSISTANT EXAMINER: Stole, Einar

LEGAL REPRESENTATIVE: Steele, Gregory W., Casuto, Dianne

NUMBER OF CLAIMS: 9 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 12 Drawing Figure(s); 12 Drawing Page(s)

LINE COUNT: 2444

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> e davidson, d/au
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                       1
Ε2
                                DAVIDSON ZAHAVA/AU
E3
                       0 --> DAVIDSON, D/AU
                  1 DAVIDSON, D/AU
1 DAVIDSONB A M/AU
2 DAVIDSONE M/AU
1 DAVIDSONN/AU
1 DAVIDSONN S/AU
6 DAVIDSONS I/AU
1 DAVIDSONT E H/AU
98 DAVIDSSON/AU
48 DAVIDSSON A/AU
1 DAVIDSSON A A/AU
E5
E6
E7
E10
E11
E12
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E1
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E_2
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E3
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1 WANG1 Y/AU

1 WANGA/AU

2 WANGA ALFRED/AU

1 WANGA C/AU

3 WANGA CHARLES L/AU

1 WANGA D/AU

1 WANGA D B/AU

1 WANGA G/AU

1 WANGA I/AU
E4
Ε5
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Ε6
Ε7
                    3
Ε8
Ε9
E10
E11
E12
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